VideoJet 8008 8-channel MPEG-4 Encoder

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BOSCH
Invented for life

- Up to 25/30 ips at 4CIF on every channel
- Dual Streaming per channel
- Internal hard disk storage
- Gigabit Ethernet
- 10 alarm inputs

The VideoJet 8008 delivers the highest-quality real-time video available today. Its advanced hardware engine produces 25/30 images per second of pure MPEG-4 video in DVD-like quality. This power is further multiplied by incorporating multiple encoders within the single unit, delivering eight full-motion video channels. Each channel generates non-multiplexed video at 25/30 ips.
The video can be viewed on a standard PC using Bosch's comprehensive video management system or a Web browser. Alternatively, when used in conjunction with a high-performance MPEG-4 hardware decoder (such as the VIP XD), you can create point-to-point hybrid analog/digital solutions. This technology uses the highest-quality analog cameras and analog CCTV monitors, but with a pure IP solution in-between.
The VideoJet 8008 8-channel MPEG-4 encoder features three key recording modes. The simplest mode is continuous ring or linear recording. The alarm-sensitive mode also runs continuously. A pre-/post-alarm option preserves a short segment of video just before and after the alarm. Up to 128 events per camera can be recorded. When the installation is completed with VIDOS video management software, VIDOS can automatically increase the frame rate during the alarm to capture events in detail, while saving capacity on irrelevant footage.

The VideoJet 8008's internal hard disk records weeks at a time locally, or for more extended recording periods it can use the Bosch-NVR network video recorder. Such an NVR server has RAID disk arrays attached for maximum fault tolerance and a storage capacity of over 36 TB.
The VideoJet 8008 with its Dual Streaming technology can encode the video input signal in two different ways in parallel if sufficient computational power is available. For example in 4CIF resolution with 1 ips for recording, and in CIF with 25 ips for live viewing at a workstation with software decoder or a hardware monitor. Depending on the application, other combinations are also possible.
Audio models provide a single bidirectional audio channel that can be connected to one out of the eight available video channels and, due to built-in amplifiers, directly to drive speakers and to a Siedle TLM611 intercom device. Audio input and output can be selected independently from each other, for example listening to channel 3 while talking through channel 8.
The VideoJet 8008 is powerful enough to simultaneously allow MPEG-4 live viewing, recording, and playback or backup. With eight channels in a rack-mountable 1HU form factor it offers the highest port density at this quality of video. Combined with a

complete set of security and distributed system management features it is the market's most powerful, highest-quality MPEG-4 encoder and recorder.

Certifications and Approvals

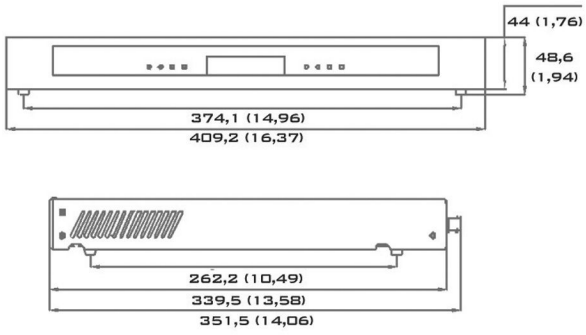
Safety

Region	Number
EU	IEC 60950
US	UL 60950
CAN	CAN/CSA-C22.2 No.60950

Electromagnetic Compatibility

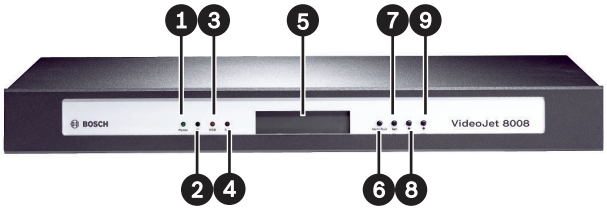
Region	Number
EU	EN55103-1 Video and audio equipment
	EN55103-2 Video and audio equipment
	EN50130-4 Alarm systems
	EN55022 ITE
	EN55024 ITE
	EN61000-3-2
	EN61000-3-3
US	FCC 47 CFR Chapter 1 Part 15

Installation/Configuration Notes



Dimensions in mm (inches)

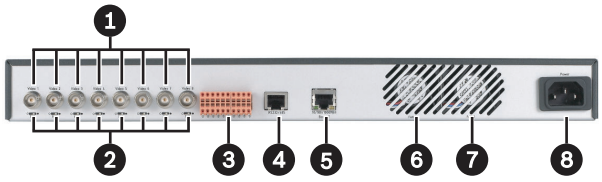
Front View



All models

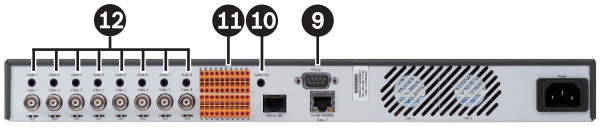
1	LED Power	6	Menu/Exit
2	Infrared receiver	7	Set
3	LED HDD	8	Up
4	LED Fail	9	Down
5	Display		

Rear View



Non-audio model

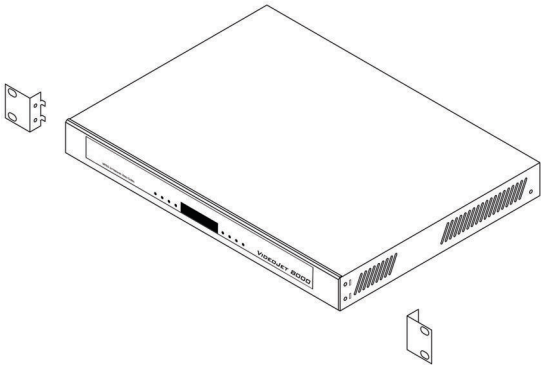
1	8 x Video In	5	10/100/1000 Base-T Gigabit Ethernet
2	75 ohm video termination	6	Fan 1
3	10 x Alarm In	7	Fan 2
4	COM port: RS-232/485	8	Power connector



Audio model

9	COM port: RS-232	1 1	5 x Relay Out, power, serial interface, AI (microphone), AO (loudspeaker)
1 0	Audio Out	1 2	8 x Audio

Rack Mounting Kit



Parts Included

Quantity	Component
1	VideoJet 8008 with internal wide range power supply including IEC and US power cables or VideoJet 8008 with audio and internal wide range power supply including IEC and US power cables
1	RS-232 null modem cable

1	Accessory Kit (19" rack-mounting)
1	Quick Installation Guide
1	CD-ROM with software and documentation

Technical Specifications

Electrical	
Input voltage	90 to 250 VCA, 50/60 Hz
Power consumption	60 VA max
Input/output	
Video	8 x input
• connector	BNC
• impedance	75 ohm, switchable
• signal	Analog composite, 0.7 to 1.2 Vpp, NTSC or PAL
Audio (audio version only)	8 x mono line in, 8 x mono line out, 1 x stereo line out, 1 x mono microphone input, 1 x mono speaker output
• connector	9 x 3.5 mm stereo jack, 2 x clamp
• signal line in	8 x 50 kohm typical, 1 Vpp max
• signal line out	8 x 8 ohm min, 1 Vpp
	1 x 5 W at 8 ohm / 2.5 W at 4 ohm
• signal microphone	2 kohm typical, 2.8 Vpp max at -20 dB, 2.3 Vpp typical
• signal speaker	4 ohm min, 6 Vpp max, 1 W RMS
	AI/AO compatible with Siedle TLM611-0 SM intercom
Alarm	10 x input
• connector	Clamp (non-isolated closing contact)
• activation resistance	10 ohm max
Relay (audio version only)	5 x output
• connector	Clamp
• signal	30 Vpp, 1 A
COM port	1 x RJ45, RS-232/422/485
	1 x 9-pin Sub-D, RS-232 (audio version only)
Video	
Standards	MPEG-4
Data rates	9.6 kbps to 6 Mbps per channel
Resolution	Horizontal x vertical PAL/NTSC
• 4CIF	704 x 576/480 (25/30 ips*)
• 2CIF	704 x 288/240 (25/30 ips*)
• 1/2 D1	352 x 576/480 (25/30 ips*)
• CIF	352 x 288/240 (25/30 ips*)
• QCIF	176 x 144/120 (25/30 ips*)
	* Depending on picture content and movement
GOP structure	I, IP
Overall IP delay	120 ms
Frame rate	1 to 50/60 (PAL/NTSC); scalable video skip ratio
Audio (audio version only)	
Standard	G.711; 300 Hz to 3.4 kHz
Data rate	80 kbps at 8 kHz sampling rate
Network	
Ethernet	10/100/1000 Base-T, auto-sensing, half/full duplex, RJ45
Protocols	RTP, Telnet, UDP, TCP, IP, HTTP, HTTPS, FTP, DHCP, IGMP V2/V3, ICMP, ARP, RTSP, SMTP, SNTP, SNMP (V1, MIB-II), 802.1x
Control	
Software update	Flash ROM, remote programmable
Configuration	Configuration Manager or Web browser
Storage	
HDD	Integrated; various sizes
Mechanical	
Dimensions (H x W x D)	44 x 409.2 x 351.5 mm (1.76 x 16.37 x 14.06 in)
Weight	Approx. 6.0 kg (13.2 lb)
Environmental	
Operating temperature	0 °C to +40 °C (+32 °F to +104 °F) ambient temperature
Relative humidity	20 to 80% atmospheric humidity, non-condensing
Thermal value	205 BTU/h max, fully equipped

Ordering Information

VJ8008H160
8-channel MPEG-4 encoder and DVR with 160 GB HDD
Order number **VJ8008H160**

VJ8008H250
8-channel MPEG-4 encoder and DVR with 250 GB HDD
Order number **VJ8008H250**

VJ8008H500
8-channel MPEG-4 encoder and DVR with 500 GB HDD
Order number **VJ8008H500**

VJ8008H1000
8-channel MPEG-4 encoder and DVR with 1 TB HDD
Order number **VJ8008H1000**

VJ8008AH160
8-channel MPEG-4 encoder and DVR with 160 GB HDD and audio
Order number **VJ8008AH160**

VJ8008AH250
8-channel MPEG-4 encoder and DVR with 250 GB HDD and audio
Order number **VJ8008AH250**

VJ8008AH500
8-channel MPEG-4 encoder and DVR with 500 GB HDD and audio
Order number **VJ8008AH500**

VJ8008AH1000
8-channel MPEG-4 encoder and DVR with 1 TB HDD and audio
Order number **VJ8008AH1000**

Software Options

SFT-VASA Hybrid IP - Analog/Matrix Video over IP Integration Software
Order number **SFT-VASA**

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1580262155 | en, V1, 11. Jun 2012